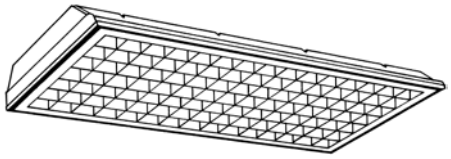
125-VDT

VDT Recessed

CF-33

2x4 2, 3, or 4 Lamp T8



application

- Ideal for areas with video display terminals.
- Premium quality recessed air handling troffer for use in:
  - –Grid inverted T (NEMA "G") ceilings.
  - –Flange-type ceilings with concealed mechanical suspension (NEMA "F").
  - –Modular and "Z" spline (NEMA "M/Z") ceilings.
  - –Contact Day-Brite for other ceiling types.
- Select one of the four air handling functions:
  - –Static; non-air handling.
  - –Heat transfer; air return through lamp compartment.
  - –Air supply; (or air return) through side slots.
  - –Combination; both heat transfer and air supply features listed above.
- Adjustable pattern control blades are optional.
- Air boots by others.

construction/finish

- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Access plate (2 K.O.'s) factory installed includes grounding screw.
- Built in (UL listed) grid clips designed for use with standard 1-1/2" high grid ceiling members.

electrical

- Class P, HPF ballasts comply with Ⓔ Federal Ballast Law (Public Law 100-357,1988).
- UL listed for damp locations. Canadian certified optional
- Self-contained fluorescent emergency power packs can be incorporated, UL listed for dry locations.

enclosures

- Exceptionally low brightness in the 60-90° zone.
- 3" x 3" x 1-1/2" Anodized Aluminum Louvers with concealed frame.
- 30° Shielding.
- Black Reveal for "Floating Louver" appearance.
- Anodized aluminum louvers resist stains and scratches and can be cleaned repeatedly without damage to louver finish.
- Specular low iridescence aluminum is standard. Semi-specular low iridescence aluminum is optional.
- Interchangeability between louvers and lensed enclosures.
- Shipped with plastic film to keep out construction dirt.

IESNA RP-1

- These fixtures meet the requirements of IESNA RP-1 for use in spaces containing video display terminals.

Specifier's Reference

Project
Type
Model No.
Comments

Green Choice: 2DPGS232-105FL-UNV-1/2-EBHE-LPT835HL

2 _____ _____ _____ _____ **32** – _____ _____ – _____ – _____

Family
- **DP** – Designer
- **DPC** – Canadian Certified Model
- **DPCP** – Chicago Plenum Model

Air Function
- **A** – Air Supply
- **C** – Combination (A&H)
- **H** – Heat Transfer
- **S** – Static (no air function)

Lamp Type/Wattage
- **32** – 32WT8 (48")

Louver Finish
- **FL** – Full specular low iridescence
- **SL** – Premium semi-specular low iridescence

Options
- **APC** – Air pattern control blades
- **ASC** – Snap out air slot covers
- **PAF** – Housing painted after stamping
- **1/2** – One 2-lamp ballast
- **1/3** – One 3-lamp ballast
- **1/4** – One 4-lamp ballast
- **1/21** – 2-lamp & 1-lamp ballasts
- **2/2** – Two 2-lamp ballasts
- **EB** – Electronic ballast, <20% THD
- **EB10I** – Electronic ballast, instant start, <10% THD
- **EB10R** – Electronic ballast, program rapid start, <10% THD
- **EBHE** – T8 electronic ballast, high efficiency, std. ballast factor
- **EBLHE** – T8 electronic ballast, high efficiency, low ballast factor
- **EBHHE** – T8 electronic ballast, high efficiency, high ballast factor
- **E1** – DEB-1 emerg. ballast, 350-450 lumens
- **E7** – DEB-7 emerg. ballast, 600-700 lumens
- **E5** – DEB-5 emerg. ballast, 1100-1400 lumens
- **E5ST** – DEB-5ST emerg. ballast w/self test, 1100-1400 lumens
- **F1** – Installed flex, 3/8" diameter, 18 gauge, 3 wire, 6'
- **F2** – Installed flex, 3/8" diameter, 18 gauge, 4 wire, 6'
- **GLR#** – Fusing, fast blow (# = number of ballasts)
- **LPT735** – Installed T8 lamps, 70+ CRI, 3500K
- **LPT835** – Installed T8 lamps, 80+ CRI, 3500K
- **LPT835HL** – Installed T8 hi lumen lamps, 80+ CRI, 3500K

Width
- **2** – 2'

Ceiling Type
- **G** – Grid
- **F** – Flange
- **Z** – Z Spline/Modular

No. of Lamps
(not included)
- **2**
- **3**
- **4**

Louver Configuration
(No. of Cells)
CF33
- **105** (2' x 4')

Voltage
- **120**
- **277**
- **347**
- **UNV** – Universal voltage, 120-277 volt

Accessories

FKDP24 – Flange conversion kit, 2x4
FMA24 – 2'x4' "F" mounting frame for NEMA "F" mounting.

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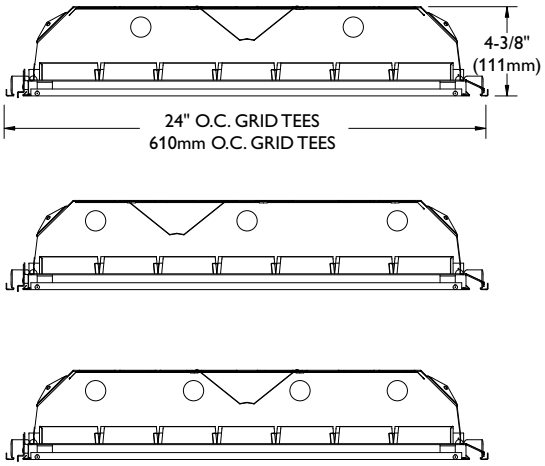
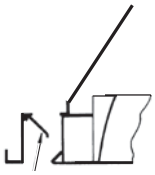
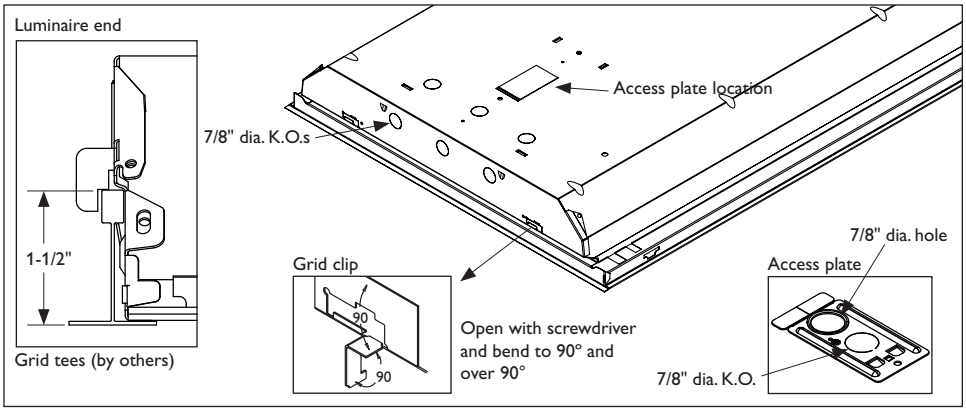
125-VDT

dimensions





Optional Air Pattern Control (on Air and Combination Units)
•Fully adjustable
– Closed= Static
– 45°= Horizontal Air Supply
– 90°= (fully open) – Vertical Air Supply
•Side Slots may also be used for Return Air to Plenum
•Snap-in Air Slot Covers (ASC) also available



photometry

CF-33 2x4 2 Lamp T8 **Efficiency – 65.9%** **LER – 62** **TER – 58**

Catalog No.	2DGS232-105FL-1/2-EB
Test No.	14912
S/MH	1.8
Lamp Type	F32T8
Lumens/Lamp	2900
Ballast Factor	0.96
Input Watts	59

Comparative yearly lighting energy cost per 1000 lumens – **$3.87** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	1396	1396	1396
5	1406	1406	1405
10	1385	1415	1428
15	1347	1411	1482
20	1296	1421	1558
25	1233	1442	1652
30	1160	1469	1760
35	1074	1484	1812
40	975	1472	1616
45	868	1372	1271
50	744	1112	1049
55	583	784	1053
60	249	398	321
65	24	83	35
70	11	14	15
75	5	6	8
80	4	4	5
85	1	2	1

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1204	20.8	31.5
0-40	2113	36.4	55.3
0-60	3719	64.1	97.3
0-90	3822	65.9	100.0

Average Luminance

Angle	End	45°	Cross
45	2175	3437	3184
55	1801	2421	3252
65	101	348	147
75	34	41	55
85	20	41	20

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	78	78	78	77	77	77	73	73
1	73	71	69	72	70	68	67	65
2	68	64	60	66	62	59	60	57
3	63	57	52	61	56	52	54	50
4	58	51	46	56	50	45	49	44
5	53	46	40	52	45	40	44	39
6	49	41	36	48	41	36	40	35
7	46	37	32	45	37	32	36	31
8	43	34	29	42	34	29	33	28
9	40	31	26	39	31	26	30	26
10	37	29	24	36	28	24	28	23

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125-VDT
photometry

CF-33 2x4 3 Lamp T8 — Efficiency – 63.9% — LER – 61 — TER – 57

Catalog No.	2DGS332-105FL-1/3-EB
Test No.	14907
S/MH	1.1
Lamp Type	F32T8
Lumens/Lamp	2900
Ballast Factor	0.94
Input Watts	86

Comparative yearly lighting energy cost per 1000 lumens – **$3.93** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	2478	2478	2478
5	2482	2494	2500
10	2449	2519	2566
15	2378	2525	2595
20	2285	2483	2473
25	2170	2358	2130
30	2032	2092	1766
35	1873	1760	1629
40	1691	1505	1777
45	1491	1431	2047
50	1255	1444	2106
55	968	1253	1583
60	402	687	436
65	36	133	52
70	16	21	24
75	9	12	13
80	4	6	7
85	2	4	3

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	1968	22.6	35.4
0-40	3093	35.6	55.7
0-60	5404	62.1	97.3
0-90	5556	63.9	100.0

Average Luminance

Angle	End	45°	Cross
45	3735	3585	5128
55	2990	3870	4889
65	151	557	218
75	62	82	89
85	41	81	61

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	76	76	76	74	74	74	71	71
1	71	69	67	70	67	66	65	63
2	66	62	58	64	61	57	58	56
3	61	55	51	60	54	50	53	49
4	56	50	45	55	49	44	47	44
5	52	45	40	51	44	39	43	39
6	48	41	35	47	40	35	39	35
7	45	37	32	44	36	32	36	31
8	42	34	29	41	33	29	33	28
9	39	31	26	38	31	26	30	26
10	37	29	24	36	28	24	28	24

CF-33 2x4 4 Lamp T8 — Efficiency – 60.5% — LER – 61 — TER – 56

Catalog No.	2DGS432-105fL-1/4-EB
Test No.	14916
S/MH	1.2
Lamp Type	F32T8
Lumens/Lamp	2900
Ballast Factor	0.92
Input Watts	107

Comparative yearly lighting energy cost per 1000 lumens – **$3.93** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	End	45	Cross
0	3151	3151	3151
5	3162	3164	3158
10	3113	3162	3184
15	3020	3126	3162
20	2899	3035	3007
25	2754	2872	2747
30	2578	2607	2491
35	2375	2338	2283
40	2139	2095	2362
45	1882	1914	2547
50	1576	1823	2482
55	1206	1526	1862
60	503	804	509
65	43	155	64
70	20	24	31
75	12	15	18
80	6	8	11
85	2	5	5

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	2469	21.3	35.2
0-40	3947	34.0	56.3
0-60	6830	58.9	97.4
0-90	7013	60.5	100.0

Average Luminance

Angle	End	45°	Cross
45	4715	4795	6381
55	3725	4713	5751
65	180	650	268
75	82	103	123
85	41	102	102

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

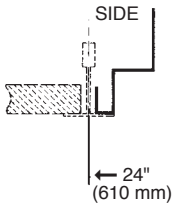
pcc	80			70			50	
pw	70	50	30	70	50	30	50	30
RCR								
0	72	72	72	70	70	70	67	67
1	67	65	63	66	64	62	61	60
2	63	59	55	61	57	54	55	53
3	58	52	48	56	52	48	50	47
4	53	47	43	52	46	42	45	41
5	49	43	38	48	42	37	41	37
6	46	39	34	45	38	33	37	33
7	43	35	30	42	35	30	34	30
8	40	32	27	39	32	27	31	27
9	37	30	25	36	29	25	28	24
10	35	27	23	34	27	23	26	22

ceiling configuration

2 DP G S 4 32

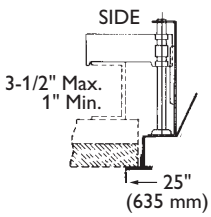
Ceiling type

G = Grid (NEMA G)



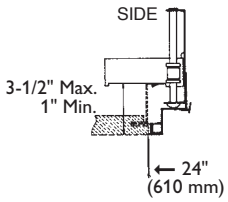
(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for luminaires on 24" x 48" spacing.

F = Flange (NEMA F)



(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 3-1/2" max.and 1" min. Refer to sheet 801-CL for output information.

Z = Modular & "Z" Spline (NEMA M/Z)



(NEMA M/Z)
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 3-1/2" max. and 1" min.

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Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

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